

**REMARKS**

This Preliminary Amendment is submitted to improve the form of the claims and to provide a varying scope for the invention.

It is respectfully requested that this Preliminary Amendment be entered in the above-referenced application.

If there are any additional fees associated with filing of this Preliminary Amendment, please charge the same to our Deposit Account No. 19-3935.

Respectfully submitted,

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Date:

May 16, 2003

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**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

**IN THE CLAIMS:**

Please AMEND claims 1, 5, 6, and 10, CANCEL claims 8 and 9 without prejudice or disclaimer, and ADD new claims 11-16 as follows:

1. (ONCE AMENDED) A steering device for toy, comprising:  
right and left turning members [for turning] to turn right and left steering wheels in clockwise and counterclockwise directions [around each predetermined shaft]; [and]  
a connecting member [for connecting] to connect the right and left turning members with each other [and for forming a turning pair with each turning member];  
a coil and magnetic body to move the connecting member in right and left directions by carrying a current to the coil; and  
a torsion spring to keep the connecting member at a neutral position when the current is not carried to the coil,  
wherein the right and left turning members are turned [around each predetermined shaft] by moving [shaking] the connecting member in right and left directions so as to change each direction of the steering wheels;  
one of [a] the coil and [a] the magnetic body is provided on the connecting member, the other of the coil and the magnetic body is fixed to a fixing portion, and the connecting member is moved in right and left directions when the coil and the magnetic body come close to and go away from each other [by shaking the connecting member]; [and]  
the connecting member takes at least two steering positions by controlling a current to be carried to the coil with a coil current carrying unit;  
the coil is an air core coil; and  
the magnetic body has a diameter corresponding to a diameter of the coil.
2. (UNAMENDED) The steering device for toy as claimed in claim 1, wherein the magnetic body is a permanent magnet and is provided on the connecting member, and the coil is fixed to the fixing portion.

3. (UNAMENDED) The steering device for toy as claimed in claim 2, wherein the permanent magnet is provided so as to direct two poles of the permanent magnet to right and left directions, and the coil is provided so as to face an edge portion of the coil to one of the two poles.

4. (UNAMENDED) The steering device for toy as claimed in claim 1, wherein the connecting member comprises a spring for keeping the connecting member in a neutral position in which the connecting member is not biased toward a right direction nor a left direction when the current is not carried to the coil; and  
the connecting member takes three steering positions.

5. (ONCE AMENDED) A steering device for toy, comprising:  
right and left turning members [for turning] to turn right and left steering wheels in clockwise and counterclockwise directions [around each predetermined vertical shaft];  
a connecting member [for connecting] to connect the right and left turning members with each other [and for forming a turning pair with each turning member];  
an air core coil [an electromagnetic force applying member for applying] to apply an electromagnetic force to move [for shaking] the connecting member in right and left directions to turn the right and left steering wheels; [and]  
a magnetic body to attract/repel the air core coil when a current is supplied to the air core coil;  
a current carrying control unit [for controlling] to control an operation of the air core coil [electromagnetic force applying member]; and  
a torsion spring to keep the connecting member at a neutral position when the current is not carried to the coil,  
wherein the magnetic body has a diameter corresponding to a diameter of the coil.

6. (ONCE AMENDED) A running toy comprising:  
a steering device for toy, comprising:  
right and left turning members [for turning] to turn right and left steering wheels in clockwise and counterclockwise directions [around each predetermined shaft]; [and]  
a connecting member [for connecting] to connect the right and left turning members with each other [and for forming a turning pair with each turning member];

a coil and a magnetic body to move the connecting member in right and left directions by carrying a current to the coil; and

a torsion spring to keep the connecting member at a neutral position when the current is not carried in the coil,

wherein the right and left turning members are turned [around each predetermined shaft] by moving [shaking] the connecting member in right and left directions [so as] to change each direction of the steering wheels;

wherein

one of [a] the coil and [a] the magnetic body is provided on the connecting member, the other of the coil and the magnetic body is fixed to a fixing portion;[, and]

the connecting member is moved in right and left directions when the coil and the magnetic body come close to and go away from each other [by shaking the connecting member]; [and]

the connecting member takes at least two steering positions by controlling a current to be carried to the coil with a coil current carrying control unit;

the coil is an air core coil; and

the magnetic body has a diameter corresponding to a diameter of the coil.

7. (UNAMENDED) The running toy as claimed in claim 6, further comprising a suspension for moving the right and left turning members in upper and lower directions in a predetermined range; the suspension comprising a biasing member which is supported in a middle of a width direction of the running toy so that right and left edge portions of the biasing member are elastically deformable in upper and lower directions and which extends on the right and left turning members; wherein the turning members are pressed with the right and left edge portions by a biasing force which is caused by elastically deforming the biasing member, so that the right and left steering wheels are in contact with a ground.

8. Cancel.

9. Cancel.

10. (ONCE AMENDED) A running toy comprising:

a steering device comprising:

right and left turning members [for turning] to turn right and left steering wheels in clockwise and counterclockwise directions [around each predetermined vertical shaft];

a connecting member [for connecting] to connect the right and left turning members with each other [and for forming a turning pair with each turning member];

an air core coil [electromagnetic force applying member for applying] to apply an electromagnetic force [for shaking] to move the connecting member in right and left directions to turn the right and left steering wheels; [and]

a magnetic body to attract/repel the air core coil when a current is supplied to the air core coil;

a current carrying control unit [for controlling] to control a current [to be] carried to the [electromagnetic force applying member] air core coil, so that the connecting member takes at least two steering positions;

a torsion spring to keep the connecting member at a neutral position when the current is not carried to the coil; and

a suspension device [for pressing] to press the right and left turning members which are movable in upper and lower directions in a predetermined range, so that the right and left steering wheels are in contact with a ground,

wherein the magnetic body has a diameter corresponding to a diameter of the coil.

11. (NEW) The steering device as claimed in claim 1, further comprising:

a trim to adjust the neutral position of the connecting member by precisely adjusting a position of the torsion spring,

wherein the trim comprises

an eccentric cam to hang an end position of the torsion spring; and

a lever to rotate the eccentric cam, wherein the eccentric cam is rotated and the position of the torsion spring and the neutral position of the connecting member are precisely adjusted by operating the lever.

12. (NEW) The running toy as claimed in claim 6, further comprising:

a trim to adjust the natural position of the connecting member by precisely adjusting a position of the torsion spring,

wherein the trim comprises

an eccentric cam to hand an end position of the torsion spring; and  
a lever to rotate the eccentric cam, wherein the eccentric cam is rotated and the position of the torsion spring and the neutral position of the connecting member are precisely adjusted by operating the lever.

13. (NEW) A steering device for a toy, comprising:  
right and left turning members to turn right and left steering wheels;  
a connecting member to connect and turn the right and left turning members to take at least two steering positions in correspondence with coil current from a coil current carrying unit;  
an air core coil and a magnetic body having substantially same diameters, one of the air core coil and the magnetic body on the connecting member and the other fixed to a fixing portion, to use coil current to move the connecting member in right and left directions as the coil and magnetic body approach/depart from each other; and  
a torsion spring to hold the connecting member in neutral when no coil current is applied.

14. (NEW) A steering device for a toy, comprising:  
right and left turning members to turn right and left steering wheels;  
a tying member to connect the right and left turning members;  
an air core coil to, upon receiving current, apply an electromagnetic force to move the tying member in right and left directions, to turn the right and left steering wheels;  
→ a magnetic body having substantially a diameter of the air core coil, to attract/repel the air core coil;  
a control unit to control current to the air core coil; and  
a torsion spring to keep the tying member in neutral when the coil current is halted.

15. (NEW) A running toy comprising:  
a steering device for the toy, comprising:  
right and left turning units to turn right and left steering wheels;  
a tying member, to tie and move the right and left turning units into at least two steering positions in correspondence with coil current from a coil current control unit;

an air core coil and a magnetic body, each having a substantially same diameter, one on the tying member and the other fixed to a fixing portion, to move the tying member in right and left directions when a current is applied to the air core coil, moving the air core coil toward/away from the magnetic body; and

a torsion spring to keep the tying member in neutral when the current is halted.

16. (NEW) A running toy comprising:

a steering device comprising:

right and left turning units to turn right and left steering wheels;

a tying member to tie and move the right and left turning units into at least two steering positions;

an air core coil to apply an electromagnetic force to move the tying member in right and left directions to turn the right and left steering wheels;

a magnetic body, having a diameter substantially equal to a diameter of the air core coil, to attract/repel the air core coil due to the electromagnetic force;

a control unit to control a current to the air core coil;

a torsion spring to keep the tying member in neutral when the current is halted;

and

a suspension device to press the right and left turning units which are movable in upper and lower directions in a predetermined range, to force the right and left steering wheels to contact a ground.